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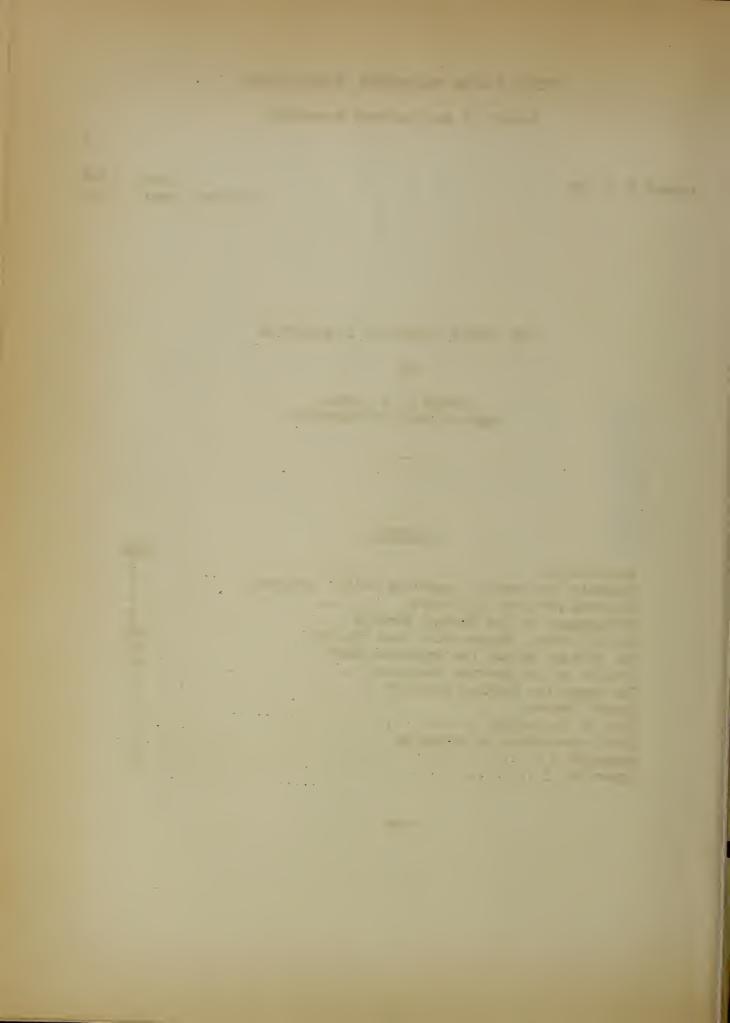
THE CATTLE SITUATION IN ARGENTINA

Ву

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THE CATTLE SITUATION IN ARGENTINA

Introduction

During the past three years Argentina has been passing through a period of severe economic depression, which is the immediate consequence of the extremely low price of beef cattle. This report is a study of the cattle-raising and beef-packing industries in their connection with this economic crisis, and of the relation of the present situation in Argentina to international trade and to the markets for cattle and beef in the United States.

Argentina is a country of vast natural resources and a small population. It is consequently a country of primary industries and a great source of raw material and food products, which are modified only to the extent necessary for transportation through the tropics. Foreign trade is of greater importance relative to the population, than is the foreign trade of the United States, for there is little in the way of manufacturing in Argentina on account of the lack of coal, as well as on account of an insufficient labor supply. The country must live, therefore, by the exchange of the wealth of its pastoral and agricultural products for the manufactured products of Europe and North America.

Economic Position of the Cattle Industry

Among these basic exports, those derived from the cattle industry have always taken high rank, and frequently the place of first importance as shown by the following table of the values of specified exports and classes of exports from Argentina for the years 1913 and 1918-1922 inclusive.

Table I.

Value of specified exports and classes of exports from Argentina.

Commodity :	1913	1918	: 1919	1920	: 1921 : 1922
or class :	TOTO	1310	<u></u>	: 1000	1361 1366
:	1,000	: 1,000	: 1,000	: 1,000	: 1,000 : 1,000
:	Dollars :	: Dollars	: Dollars	: Dollars	:Dollars :Dollars
Cattle, beef & :			:	:	:
by-products:	95,960	340,683	: 329,874	: 161,673	: 110,602:1/115,154
Dairy products:	2,151	: 19,231	: 21,274	: 20,660	: 19,337:1/ 16,092
Wool:	43,583	: 121,569	: 143,194	: 68,952	: 40,411: 43,615
Other pastoral :	•		:	:	:
products:	17,927	26,319	: 46,718	: 30,442	: 22,994: 28,099
Wheat	98,806	: 170,033	: 198,873	: 308,365	: 96,397: 169,154
Corn:	108,107	: 16,734	: 75,691	: 149,380	: 83,590: 84,499
Linseed:	48,050	37,047	: 109,506	: 104,310	: 81,039: 69,238
Oats:	19,685	17,283	: 10,214	: 13,827	: 11,325: 8,911
Other Agricul- :			:	:	: :
tural products:	15,390	21,678	: 38,022	: 46.216	: 15,196: 19,452
:	:		:	•	: :
Total agricul- :	:		:	:	: :
tural products:	449,659	770,577	: 973,366	: 903,825	: 480,891: 554,214
:			:	:	: :
Forest products :	10,222	15,641	: 25,015	: 17,292	: 9,669: 13,988
Mineral products:	187	: 1,581	: 577	: 455	: 212:)
Fishery & game :			:	:	: :) 10,246
products:	1,749	1,469	: 1,785	: 849	: 1,417:)
Miscellaneous:	3,666	23,203	: 15,809	: 18,445	: 9,846:
:			:	:	: :
Total exports :	465,483	812,471	:1,016,552	: 940,867	: 502,035: 578,448

1/ Incomplete. See Table II.

In 1913, agricultural products constituted 93 per cent of the total exports by value; from 1918 to 1923 they have in each year been either 95 or 96 per cent. Taking all six years into consideration the value of the exports of cattle, beef and by-products was far greater than the value of any other export. In 1918, the exports of products of the cattle industry constituted 44.2 per cent of the total exports of the country.

In Table II, the item of "Cattle, beef and by-products" is further analyzed. The figures in this table are not absolutely complete as some beef by-products are included in miscellaneous meat products and other products produced both from cattle and from other animals. The percentage of error is, however, small and the table does show the relative importance, at least in these four years, of the various products of the cattle industry.

Table II.

Exports of cattle and cattle products from Argentina.

	· · · · · · · · · · · · · · · · · · ·					
Article	1913	1918	1919	1920	1921	1922
	1,000	1,000	1,000	1,000	: 1,000:	1,000
:		: Dollars :	Dollars :	: Dollars	: Dollars:	Dollars
Live cattle:				3,857	1,022:	1,894
Frozen beef:	·	144,061				
Chilled beef:						
Canned beef:	•					
Jerked beef:			1/	: 1/	1/:	,
		±/	Ŧ	<u>±</u> /	<i>₹</i> .	. =/
Tongues, pickled &:		001	3 3 6 6		450	200
frozen:	127	981 :	1,166	565	: 420:	288
Beef extract & :					:	- /
bouillon:		·	·			,
Beef meal:	•					
Rendered tallow:				·	·	,
Margarine, etc:		5,019	1,178	893	: 192:	1/
Stearine:	102	451 :	751	628	260:	
Glycerine:	131	422 :	20	99	: 19:	1/
Frozen offals:	1/	4,395	4,589	3,665	2,525:	1,258
Dried blood:	247				363:	
Salted ox hides:						
Dried ox hides:	·	·			·	
Tanned ox hides &:	•	. 1, 100	, 1,011		. 0,001.	22, (02
sole leather:		1,292	2,031	: 218	66:	1/
Bones & bone ash:		230				
Hoofs & horns:						
Hoors & norns:	188	102 :	130	206	63:	1/
Total, all items:				3.03.088	:	225 254
listed:	95,960	340,683	329,874	: 161,673	: 111,602:	115,154
		:			:	
Total, items list-		:	:		:	
edjeach year :	90,901	324,939	318,769	: 155,130	106,735:	113,896
:	_ :				:	
Dairy products: :		:			:	
Butter	1,457			: 16,322		
Cheese	1 :	2,329 :	2,709	2,989	2,194:	1,815
Casein:	664 :	681 :	1,575	1,265	855:	1/
Cream:	29 :	10:	69 :	84	: 11:	Ī/
		•	4		•	
Total, dairy :						
products:	2.151	19.231	21.274	20,600	19.337	
production	~,101	10,001	ω <u>υ, ω, π</u> .	20,000		
Grand total, all:						
items listed:		359,914 :	751 140	100 777	120 070	131 246
TOCHS IISTEC:	30,111	905, 314 :	301,140	102,000	163,333:	101,240
Motol it li					:	
Total, items list-		7.45 4770	220 220	7 m 4 4 4 7	107 611	200 000
ed in each year	92,359:	343,479:	338,399 :	174,441	125,206;	129,988
1/ Not se	narately 1	isted	2/	Less than	\$500.	

^{1/} Not separately listed.

^{2/} Less than \$500.

In addition, the home consumption of beef and by-products is of great importance, since the Argentine people with their pastoral traditions are large meat eaters. The Argentine statistician, Alejandro E. Bunge, in constructing an index number of food cost for Argentina gives to meat a weight of 30 per cent. He also estimates that of the meat consumed, 80 per cent is beef. 1

A further indication of the extent of the domestic market is contained in the following table showing the number of cattle and sheep killed in the different types of packing houses and slaughter houses in Argentina in the year 1923:

Table III.

Killings of meat animals in 1923.2/

Type of abbatoir	Cattle	Sheep
Liniers slaughter houses, Buenos Aires:3/	1,080,536	679,449
Packing houses, including production : of canned and salted meat	2,992,973	: 4,362,440
rotal	4,073,509	5,041,889

These figures do not represent the total slaughter as there were in addition municipal and private slaughter houses, which in 1917 slaughtered over 1,000,000 cattle and 500,000 sheep, and there are further many small slaughter houses not reporting at all. Finally, some cattle were slaughtered on ranches. It is reported that the total number of cattle killed or dying in Argentina in 1918 was close to 6,000,000 with an annual average of 5,000,000.

^{1/} The Purchasing Fower of Money in Argentina, 1910-1918. Review of the River Plate for Feb. 28, 1919. 2/ Review of the River Plate for Feb. 1, 1924. 3/ Includes 562,418 calves. 4/ Consular report, Buenos Aires, April 26, 1922.

In 1917 the number of ox and calf hides exported, or utilized in the country, was 5,373,000, and the average exportation of hides for the ten years 1910 to 1919 was 102,000 short tons, which would probably represent about 5,000,000 hides. The number of beef quarters exported in 1917 was 5,046,638, representing 1,261,660 animals. In addition there were exported 111,094 tons of canned beef and 8,392 tons of jerked beef, which would require for production possibly 500,000 cattle. Further, the per capita consumption of beef in Buenos Aires in 1917, is stated as 76 hilos, or 162 pounds. Allowing a population of 2,000,000 for the capital and its suburbs, this means the consumption of 336,000,000 lbs., or allowing 600 pounds per head, about 560,000 cattle. Since the total population of Argentina is over 8,000,000 and since there is probably at least as great per capita consumption in the country as in the city, there must be a domestic consumption of at least 2,000,000 beef cattle annually.

It is not at all surprising, therefore, that a drop in the price of cattle to figures even below the average for the five years before the war, accompanied as it was by lower prices for other articles of export, spread consternation among the Argentine ranchers. Since the packing companies are the largest purchasers of cattle, it has been freely charged that they are in combination to depress the market price. The packers have replied that the whole world has been passing through a period of deflation and that the

l/ Commerce Reports. Nov. 15, 1918. A press release of the U. S. Dept. of Agriculture, Feb.23,1923, estimates the per capita consumption of meat in the United States for 1922 as 149.7 lbs. This is made up of 61.4 lbs. of beef, 7.3 lbs. of veal, 5 lbs. of mutton and lamb and 76 lbs. of pork. The corresponding Argentine figures would be roughly, 168 lbs. of beef and veal, 20 pounds of mutton and lamb and 10 lbs. of pork, a total meat consumption of 198 lbs. per capita. See also article by Bunge in Review of the River Plate, Feb. 28, 1919.

reaction in Argentine cattle prices is only a part of the readjustment to the pre-war basis. The producers, however, have refused to be convinced and have carried the issue into politics.

On January 19, 1923, President Alvear addressed three messages to Congress calling for comprehensive legislation, first: for greater control of the packing companies and of commerce in live stock and meat products; second, for a law to prevent combinations in restraint of trade; and third, for the financing and construction of a state-owned packing house in Buenos Aires. These measures are accompanied by the texts of the proposed laws, which it is understood were prepared by the Minister of Agriculture, Dr. Tomas A. LeBreton, who was until recently Argentine Ambassador to the United States. 1

The agitation continued for several months longer and finally resulted in the passage of four bills of vital interest to the cattle industry. These bills may be summarized as follows:

- 1. All transactions in cattle either for internal consumption or for export shall be effected at the unit price of so much per kilo live weight.
- 2. The purchase or construction of a national packing house in Buenos Aires is authorized at an estimated cost of 10,000,000 paper pesos (\$3,500,000 at average exchange, 1923).
- 3. All private packing houses and dealers handling more than thirty animals a day must be registered with the Ministry of Agriculture, and must conform to prescribed standards and submit to government regulation.

^{1/} These messages are published in translation in the Review of the River Plate for Jan. 26, 1923.

4. The President with the advice of a commission is authorized to fix minimum prices for the purchase of beef and cattle; purchases at less than the fixed price to be punished by a fine of 100,000 paper pesos (\$35,000 at average exchange, 1923). On second conviction the courts are authorized to close the offending establishment. 1/

The first measure does not become effective until early in April.

This law is not objectionable to the large packers, but the producers and small dealers are at loss as to how they will conform to its provisions, as there are very few scales in the country on which cattle can be weighed. Cattle have always been bought and sold by the head, and the packers in continuing this practice simply conformed to established custom.

A recent report from Buenos Aires states that the Federal Government has acquired 57 acres of land just outside the city of Buenos Aires for the erection of a government-owned meat packing establishment. This was evidently done in conformity with the second of the laws mentioned above.

The regulatory law went into effect January 2, 1924. This measure was sponsored by the Minister of Agriculture, who argued that whether or not the frigorificos (packing houses) were in combination, there should be a regulatory law in the best interests of the country. In drafting the law the regulatory laws of the United States were followed in substance.

The price fixing law was passed October 3, 1923 and became effective at once. This law was a concession to the producers and was opposed on principle both by the President and the Minister of Agriculture. Senorr

^{1/} The texts of the first, third, and fourth laws may be found in English translation in the Review of the River Plate for Oct. 5, 1923.

^{2/} Report of Consul P. J. Houlihan. See Crops and Markets, Feb. 16, 1924.

Le Breton even submitted his resignation when the law was passed, but he was induced by President Alvear to remain in office. The price commission was appointed immediately and its decision was incorporated in an executive decree making the new prices effective October 17. The packing houses thereupon stopped all purchases of cattle, claiming that it was impossible to operate under the provisions of the new law. The deadlock continued until November 7, when in response to requests from the producers themselves, the President is sued another decree suspending the operation of the law for six months. The packers then resumed purchases, but the number of cattle offered was so large that prices dropped rapidly until in December the average price expressed in terms of U. S. Currency was less than \$41 per head for chilled beef steers as compared with more than \$51 per head in the first half of October.

While the producers are far from being satisfied with the outcome of the experiment in price regulation, there appears to be a wider recognition of the fact that the cattle crisis was due to economic causes beyond the control of the Government. It also appears that the period of liquidation is practically over and that the cattle industry is gradually accommodating itself to a lower level of prices than that which they enjoyed during the period of war and post-war inflation. The so-called cattle crisis in the sense of an acute situation may, therefore, be considered at an end.

The Development of New Foreign Markets

During the acute period of the cattle crisis the Argentine government was very active in its efforts to develop new foreign markets for Argentine beef. In the summer of 1922, Dr. Daneri, a special commissioner of the Argentine Government, negotiated an agreement with a German syndicate for the exchange of frozen beef and cattle on the hoof for German manufactured products. In Argentina, however, opposition developed to the plan of having the government enter the business of marketing beef, and it became necessary to organize a new corporation (The Argentine Frozen Meat Exporting Company) to carry out the terms of the contract. The first shipment of 550 tons was made early in November, 1922, by the German steamer "Niedenwald." The Sansinena Meat Company, the only one of the packing companies controlled by Argentine capital, is understood to hold 20 per cent of the capital of the exporting company and also acts as intermediary in the purchase of steers, slaughter, refrigeration and loading. 1/

Efforts were also made to develop a market for Argentine beef in the United States. In 1914 and 1915 a considerable quantity of beef was marketed in the United States but these shipments were interrupted by war developments, and following the war a tariff of two cents a pound, together with increased freight rates, discouraged further shipments. Under the new tariff act the tariff has been increased to three cents and the freight and insurance will amount to another three cents. Yet even under these discouraging conditions a partial carge of 160 tons of frozen beef was shipped from Buenos Aires to New York on November 18, 1922.2/

^{1/} Review of the River Plate, November 10, 1922, p. 1135. 2/ Washington Post, November 25,1922, also Times of Argentina, Nov.27,1922.

Dr. Le Breton in an address delivered on November 9, 1922, was very optimistic over the prospects of beef exports to the United States. He showed that the wholesale price of the best quality beef in New York was fifteen cents while chilled beef in Buenos Aires was selling for 6.75 cents a pound. He estimated the tariff, freight and insurance at five cents, leaving a safe margin of profit on the sale. If it is probable, however, that Dr. Le Breton underestimated the cost of placing the Argentine beef in New York, and also that he overestimated the price which could be obtained for the beef in New York, as it is likely that foreign chilled or frozen beef would sell for much less than the Chicago dressed beef on account of the longer period of storage if not on account of quality. The real answer seems to be that since packers in the United States control over fifty per cent of the River Flate teef trade and know the situation, they would undoubtedly import Argentine beef into the United States on their own initiative if it were profitable to do so.

In September 1922, contracts were signed for the expertation of 1,000 head of live cattle from Argentina to Greece, with provision for a further shipment of 9,000 head if the first shipment proved satisfactory. In each year since the close of the war there have been shipments of Argentine beef to ports in Belgium and the Netherlands, and a few small shipments to Italy, but of all the new markets, that in France was thought the most promising. In the early days of the frozen beef trade shipments to France were sold readily, but later the French people became violently prejudiced against imported beef, so much so that even in the World war the French armies had to be provided with fresh meat while the British and

^{1/} Review of the River Plate, November 17, 1922, p. 1201.

^{2/} Report of Ambassador Riddle, Oct. 11, 1922.

American armies were more economically supplied with the frozen or canned beef from the United States or Argentina. The frozen meat interests charge that this French prejudice was originally inspired by propaganda from the domestic trade. It is also charged that during the war this prejudice was intensified by the resale in France of military supplies in bad condition. Until very recently, therefore, good Argentine beef would bring no more than horse flesh in the Paris markets. 1/

With the departure of the Allied Armies from France, imports of Argentine beef declined to about 10,000 tons, but during the past year several consignments of frozen beef have been successfully placed in the French markets. In 1922 the "Banco de la Nacion Argentina" was obliged to take 1830 steers in satisfaction of a loan, and rather than to sell at current prices, entered into an agreement with the Sansinena Company to market them as beef in France. The steers averaged 668 pounds of dressed meat, and at current prices would have brought \$53,747 in Argentina.

The transaction covered 120 days and after deducting all expenses yielded to the bank a net profit over Argentine prices of \$10,641, not-withstanding the fact that the price of beef in France at the time was considerably lower than it was only a few weeks later. 2/

The British Ministry of Agriculture and Fisheries recently published the following item:

"The Ministry learns through the Department of Overseas Trade that an agreement has been concluded between France and the Argentine with regard to the importation of frozen meat. It is expected that by this agreement France will be able to import considerable quantities of frozen meat at a price round

^{1/} Sr. C. A. Tornquist, quoted in Review of the River Plate, Nov. 17, 1922, p. 1203.

^{2/} See Review of the River Plate, Dec. 1, 1922, p. 1325.

about Frs. 2-1/2 per kilo. delivered at the port, and that it will be possible to sell such meat in France at a price which should not exceed anywhere more than Frs. 5 per kilo. The meat will be imported direct in French vessels and will, it is anticipated, be of better quality than that which previously reached France through the United Kingdom because it would not be kept so long in storage. In exchange for meat purchases, Argentina undertakes to give orders to France for metal goods to an amount at least equal to half the sum paid by France for the meat. In addition, the prohibition of the import into Argentina of French live stock for breeding has been removed."

On January 17, 1923, the Associated Fress released a dispatch from Paris reading as follows:

"Shipments of Argentine frozen meat, which will begin this month from Rosario, Argentina, under the terms of the recent Franco-Argentine commercial agreement, will be used by some of the cooperative societies to cut down the high cost of living. It is expected that this frozen beef will sell in the interior at roughly one-third the present price of fresh beef."

In spite of all these efforts to obtain other markets it is likely that for many years to come the United Kingdom will remain the chief market for Argentine beef. Great Britain has a greater deficit in its domestic beef supply than any other country, and at the same time it still possesses the convenient ability to pay for the foreign beef which it desires to import. From 1907 to 1914, ninety per cent of the Argentine beef exports went to the United Kingdom, and only in the four years 1917-1920, inclusive, have the exports to Great Britain fallen below eighty per cent of the total. Even in 1918, when forty-four per cent of the Argentine beef exports went to countries other than Great Britain, much of this beef actually went to provision the British armies in France.

^{1/} British Ministry of Agriculture and Fisheries, Agricultural Market Report, February 16, 1923, p. 2.

^{2/} See Tables XXIV and XV in Appendix. For a more complete discussion of the British market for frozen and chilled meats see "Supplying Britain's Meat," by George E. Putnam, published by George G. Harrap & Co., Ltd., London.

The following table, taken from the summary of Argentine export trade published each year by the "Review of the River Plate," shows the trend of the exports of chilled and frozen beef in the years since the great war. Unfortunately no official figures by countries of destination are available since 1920.

Table IV.

Exports of frozen and chilled beef from Argentina, 1918 - 1923.

Country	1918	1919	1920	1921	1922	1923
	Quarters :	Quarters				
United Kingdom:	2,717,890:	2,566,973:	3,505,701:	3,968,923:	4,513,589:	5,441,210
United States:	:	;	114,731:	31,382:	14,719:	3,206
France:	2,248,120:	1,884,244:	602,735:	82,264:	152,108:	167,972
Germany:			89,958:		66,660:	310,415
Belgium:	1/:	1/:	325,772:	231,670:	204,490:	545,187
Italy:			13,971:	4,390:	37,150:	115,261
Netherlands:		8,126:	3,700:	22,075:	39,827:	159,116
Denmark:	:	:	:	2,638:		
Sweden and Norway:	:	20,887:	1,784:	:	· ;	5,840
Brazil:			4,996:	:	;	
Orders:	439,320:	280,317:	507,447:	403,620:	66,420:	6,552
Other countries:	29,219:	69,843:	8,097:	2,576:	583:	660
Total	6,218,227	5,108,204	5,178,892	4,749,538	5,095,546	6,755,419

Cattle Prices - Buenos Aires and Chicago.

The Liniers Market in Buenos Aires is the principal open market for cattle in Argentina. To this market cattle of all grades are shipped from the provinces and sold at auction by the head. The buyers of the packing houses and the butchers of the city bid for the fat steers and for the cheaper cows and bulls, while the thin steers from the ranges are bought by the feeders and taken out to the great alfalfa meadows of Buenos Aires province for fattening. The prices in the Liniers Market are the only

^{1/} Not separately listed. 2/ To be changed by law of 1923 requiring sale by live weight.

cattle prices regularly quoted, and are generally accepted as representative, although it is known that the greater part of the cattle purchased for the export trade in chilled and frozen beef are obtained by representatives of the packers direct from the estancias or ranches. These country prices are usually higher than the prices for the corresponding grade in Liniers, but no regular quotations are available.

Since in Argentina it is not the custom to weigh cattle before sale, it is quite difficult to make satisfactory price comparisons between prices in Buenos Aires and those in Chicago. The commercial published quotations usually give only the price range for the different grades of cattle, with no indication as to the true average price. Then the grades frequently change over a period of years, making it almost impossible to follow even the price range of any particular grade. The commonly accepted quotations are the monthly average prices from the "Boletin Mensual de Estadistica Agricola," the official publication of the Direccion de Economia Rural y Estadistica. But here also the grades are occasionally changed and there is no information as to how these averages are derived. Then from October, 1919, to March, 1921, no figures were published. The missing figures have been obtained from the office of the Direccion de Economia Rural y Estadistica by D. S. Bullock, U. S. Agricultural Commissioner, 2/ but these supplied average prices do not fluctuate in conformity with known market conditions and one monthly average is admitted to be erroneous because of

^{1/ &}quot;Compañía Swift buys less than 10 per cent of its chilled beef requirements in Liniers." Letter from G. E. Putnam, Swift & Company, February 29, 1924.

^{2/} Report No. 69, September 23, 1922.

improper classification of one large lot of steers.

In this study, therefore, the official figures have been used only as a check on the more satisfactory commercial quotations taken from the "Review of the River Plate." In this periodical since 1916, in addition to the price range per head, a derived price has been quoted per pound of anticipated dressed weight for chilled beef steers. From several sources it has been possible to obtain estimates of the average dressed weight of this grade of steers. From a consideration of these estimates it has been assumed that the average is 730 pounds. We also have an estimate that chilled beef cattle will dress on the average 58 per cent of the weight on the hoof. 2/ We have thus been able to estimate the average live weight of chilled beef steers at 1,259 pounds. These are the finest steers sold on the Liniers Market, of medium weight and fatness and from two to three years old. The prices of steers shown in Table V, from 1916 through 1923, were, therefore, obtained by taking a monthly average of the weekly price per pound quotations and multiplying by 730. In Table VII, the price per hundred pounds live weight was obtained by dividing items in the converted table of cattle prices (Table VI) by 12.59.3/

Back of 1916 the only commercial price figures are those of the

^{1/} See Mexia, Ezequiel Ramos, "Los Mercados de Ganados, Carnes y Cueros."
Also Prebisch, Raul, "Information Estadistica sobre el Comercio de
Carnes"; Bullock, D.S., Market Report #38, May 4, 1922.

^{2/} Mexia, op.cit.
3/ From 1909 through 1911 prices were converted at the rate of .424512 pesos to one dollar (par of exchange). From January 1912 through June 1921 the exchange rates used were monthly averages derived from the weekly quotations published in the International Yearbook of Agricultural Statistics, Page 505. Since July 1921 the rates used are the monthly averages quoted in the Bulletin of the United States Federal Reserve Board.

weekly range for different grades as noted above. Since the designations of these grades changed two or three times from 1909 through 1915 it was thought best to take the average of the best grade quoted as the basis for the price table. By checking a similarly derived average after 1916 with the price obtained from the pound quotation, it was found that the average of the range of prices was usually somewhat higher than the derived price. Also in the market reports, particularly in 1914 and 1915, it is occasionally stated parenthetically that these best grade steers will dress about 800 pounds. It is evident, therefore, that some cattle heavier than the present chilled beef grade are included. Therefore, in order to make the price series before 1916 comparable with the prices subsequent to that year, the average range for the month was divided by 800 and multiplied by 730. This derived average price was found to check fairly well with the official average for the best grade steers taken from the "Boletin Mensual de Estadistica Agricola," although the series of derived figures much more than the official figures are responsive to the market conditions as reported in the weekly summaries. 1/

^{1/} Table V also checks within a reasonable margin of error with two tables of prices published in an article entitled "The Home Meat Market" in The Review of the River Plate for Jan. 5, 1923, page 47. The first of these tables gives the price per head in the Liniers Market, monthly from 1912 through 1922, but with no information as to grade. The second table gives the price per pound paid by the packing companies to one cattle owner for chilled beef steers at private purchase during the same period. These prices during 1921 and 1922 are consistently higher than the prices paid for the same grade on the Liniers Market, thus supporting the contention of the writer of the article that the packing companies force down the price in the Market in order that their agents may make direct purchases at their own prices. It may also be noted that in the quarterly review "Business Conditions in Argentina" for January 1, 1923, it is stated that "good steers, suitable for chilled beef, fetch from 17 to 18 cents per pound of meat." This would be from 124.to 131.50 pesos per head, equivalent to from \$46:90 to \$48.65 per head or from \$3.72 to \$3.86 per hundred pounds live weight. These prices as will be noted are considerably higher than the Liniers Market quotations, and probably represent private purchases.

In this rather complicated process there are, of course, many possibilities of error in the individual monthly average prices, but as to the general trend of prices the series can not be far from accurate.

The figures in Table VIII are index numbers of cattle prices in Argentine currency derived from Table V with a simple yearly average of prices from 1909-1913 as a base. No attempt was made to correct for seasonal trend because in the base years the seasonal trend is twice obscured by other tendencies which make statistical correction rather unsatisfactory. The index number in Table IX is based similarly on the price table (Table VI) as converted into U. S. currency. This is in effect a correction of the first index number for the fluctuations in the exchange value of the Argentine peso.

In Table X an attempt has been made to obtain a price series for a grade of beef steers in Chicago which will correspond to the chilled beef steers in Buenos Aires. Since the grade designations in Chicago change almost as frequently as those in Buenos Aires, it was considered that a closer approach to a uniform grade could be reached by taking the prices for steers of a similar weight through the same series of years. These prices were available in the "Year Book of Figures," published by the Drover's Journal for steers weighing from 1,200 to 1,350 pounds. The prices for these weights for 1919 which were not published in the Yearbook were furnished by the office of the Drover's Journal. In Table XI these figures are reduced to an index number based upon the 1909-1913 yearly average price. Table XII shows the differences month by month between the prices of cattle per 100 pounds in Buenos Aires and the corresponding prices in Chicago.

Table V.

Chilled beef steer prices Liniers market, Buenos Aires.

(In Argentine paper pesos)

Average	The street	Pesos:	118.6	. 201	: 103	: 112	: 116	: 115	: 147	: 167	: 186,		: 181.60		: 239.47		189.77	: 137.96	131.66
Dec.		Pesos	119	195	: 113	: 103	: 103	: 121	155	: 167	195			: 225.40		219	: 167.90	: 108.75	127.75
Nov		Pesos	131	208	125	128	119	123	160	170	212			225,55	_	235	190.70	, 115.	7/1/10 00 T
Oct.		Pesos	134	225	130	137	124	123	156	184	225	210	188	239.10:		255:50:	194.35	,135.05	9
Sept.		Pesos:	129	222	117 :	127 :	125	123 :	153 :	175 :	225 :	204.50:		237.25:			194.90;		- 1
Aug.	0	Pesos :	125	213	108 :	118 :	124 :	120 :	153	174 :	504	199	187 :	212.45:	266.45:	248.20:	177 :	156.95:	001
July:		Pesos:	119	198	101	110 :	123 :	110 :	1.52 :	170 :	178 :	•	184.25:	•		232.15:		154.20:	133.20:
June :		Pesos:	116	187	95 :	108 :	117 :	110 :	1,49	169	166 :	188.25:		167.90:	209.90:	226.30:		136.50:	126.30:
May :		Fesos:	115	193	91 :	105 :	114 :	110 :	156 :	163 :	163 :	202.50:	188 :	168.25:	229.20:		1.75.20:	115 :	134.15:
Apr.	4	resos :	113	.: 461 ::	.: 68	107 :	113 :	110 :	145 :	159 :	167 :			171.55:			209.90;		139.60:
Mar.		Pesos :	110	192	91 :	107 :	114 :	107 :	131 :	162 :	163		-	167.90:				137.24:	129.90:
Feb.		Pesos:	106	191	. 96	. 86	107 :	112 :	123 :	156 :	163 :	210 :	188 :	167.15:	218.10:		213.50:	156.95:	110.40:
Jan.		Peros:	105	188	: 62		106 :	106 :	125 :	148 :	166 :	204.50:		151.50:				173.40:	104.00:
Vear	•	••	Av.1909- : 1913	Av.1914- :	1909	1910	1911:	1912	1913:	1914	1915:	1916	1917	1918	1919	1920	1921:	1922	1923:

From 1909 to 1913 inclusive, average quotation per head ÷ 800 x 730. 1914-1915 inclusive, same corrected by occasional cents per 1b. quotations. 1916-1923 inclusive, cents per 1b. quotation x 730. 1/Based on three quotations. Buying suspended October/to November. 7, Based on weight of 730 pounds per carcass, dressed weight. Quotations from Review of the River Plate.

because of minimum price law.

Table VI.

Chilled beef steer prices Liniers market, Buenos Aires.

(In U.S. currency)

Average	Dol.	50.28	85.56	43.83								
Dec.	Dol. :	:50.42:	83.52:	47.97:								
Nov.	Dol. :	55.51:	87.26:	53.06:								1
Oct.	Dol. :	56.79:	94.36:	58.16:								- 1
Sept.	•••	54.67	93.27:	49.67:	53.06:	64.43:	93.85:	77.54:	105.89:	90.01:	53.39:	48.09:
Aug.	Dol. :	52.80:	89.02	45.85: 50.09:	52.64:	54.43:	84.43:	80.60:	94.36:	93.46:	56.69:	42.33:
July	Dol. :	50.56:	84.12:	42.88: 46.70:								
June	••	19.16:	80.21:	40.33: 45.85:			•					•
May	Dol. : 1	48.92:	83.01:	38.63:	÷ è	(i) (ii)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	9 5				
Apr.	Dol. : 1	: 40.84	83.72:	37.78:								
Mar.	Dol. : 1	16.80:	83.19:	38.63:								
Heb.	Dol. : 1	45.11:	.82.98:	38.21:								
Jan.	Dol. : I	44.59:	82.02:	37.78:								- 1
Year		Av. 1909- :	Av.1914-	1909	1911	1913	1915	1917	1018	1920	1922	1923:

Converted from Table V.

Table VII.

Prices of chilled beef steers per 100 pounds live weight, Buenos Aires.

(In U. S. currency)

				- 20	-				
Average	Dol.	3.99	6.79	3.48 3.98 3.90 3.90					1
Dec.	Dol.	4.00	6.63	13.47 14.47 14.47					
Nov.	Dol.	14.41	6.93	4.32					
Oct.	Dol.	4.51	7.50	44.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4					1
Sept.	Dol.	4.34	7.41	4.28					!
Aug.	Dol.:	4.19:	7.07	49.50					!
July	Dol.	4.02	. 89.9	477.7					
June	Dol.	3.90	6.37	348					
May	Dol. :	3.89 :	6.59	で で で で で で で で で で に に に に に に に に に に に に に					
Apr.	Dol. :	3.82	6.65	23.00					
Mar.	Dol.:	3.72	6.61	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00					3.97 :
Feb.	Dol. :	3.58	6.59	3.03.03		5.61 6.56 6.56			
Jam.	Dol. :	3.54 :	6.55	10000 10000		6.93			
Year		Av.1909-:	Av.191 ¹ +-:	1909	1912	1915 1916	1918:	1920	1922

Table VIII.

Index numbers of prices of chilled beef steers, Liniers market, Buenos Aires.

Base, average of monthly averages 1909-1913 = 100.1/

age.	001	69	た	-
Average	10	: 16	1120202111120202111100021111000011111000011111000011111000011111	
Dec.	100	165	00000000000000000000000000000000000000	108
Nov.	110 :	175	100 100 100 100 100 100 100 100 100 100	118
Oct.	113:	190 :	11100111005	1.34 :
Sept.	109	187	1001 1001 1001 1000 1000 1000 1000 100	123:
Aug:	105	180	100 100 100 100 100 100 100 100 100 100	109
July	100	167	1200 1200 1200 1200 1200 1200 1200 1200	112
June :	98	158.	11 12 20 20 20 20 20 20 20 20 20 20 20 20 20	100
May		163:	7-89692771111611616161616161616161616161616161	113 :
Apr.	95	164	20000000000000000000000000000000000000	118 . :
Mar.	93.	161	11,000 11	110 :
Feb.	68	161	138 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	93 :
Jan.	68	159	74 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	88 :
Year	Av.1909-1913:	Av.1914-1920:	1909 1910 1911 1912 1915 1915 1918 1920 1920	1923:

1/ Based on Table V.

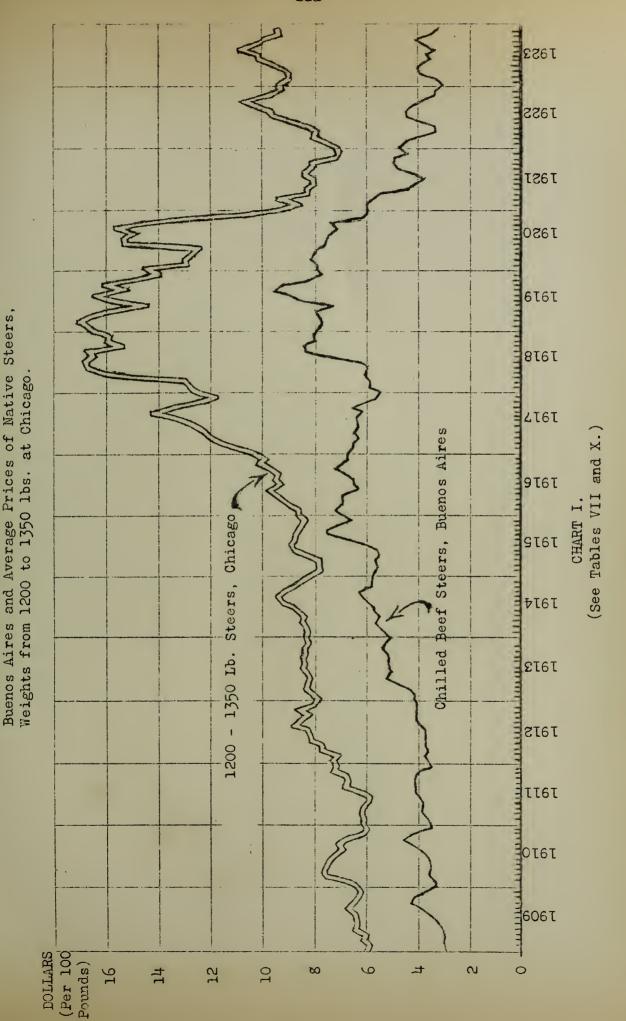
Table IX.

Index numbers of prices of chilled beef steers in Buenos Aires.

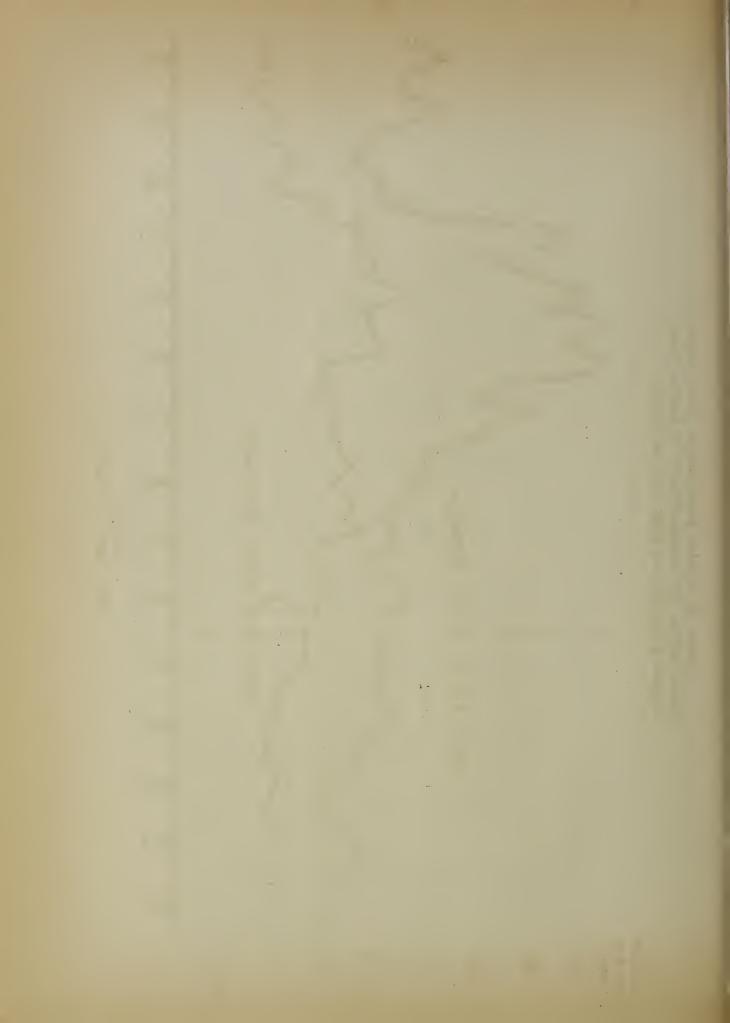
Base, average of monthly averages 1909-1913 = 100.1

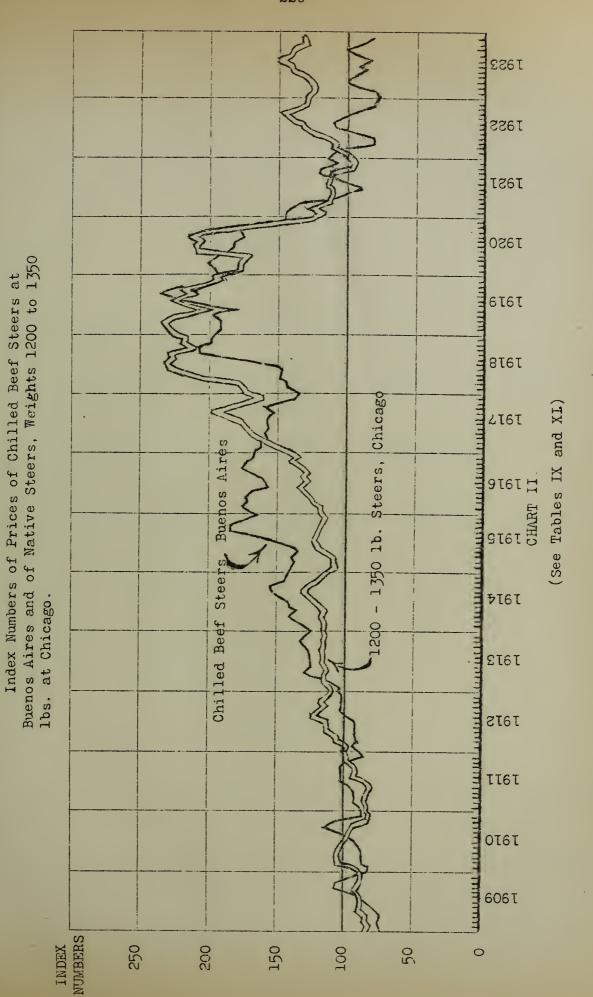
Average	100	170	87	98	124	156	158	171	186	122	98
Dec.	100	166	95 :	87 :	1,30 :	165	139	202 :	150 :	110 :	
				** **	•• ••	• •• •	•(••	•• ••	•••	••	•• ••
Nov	110	174	105	100	134	178	151	201	157	123	83
Oct.	113	188	110	105	131	188	164	213	182	154	96
Sept.	109	186	99 :		128	187	154	21.12	179	119 :	106
Aug.	105	177	91.	105	128 :	168	160	188 200	186 :	103 :	113 :
July	101	167	93	104	128	150	160	156 :	187	92 :	110
June	. 86	160	80 ::	96.	126	139	159	150 ::	189	103 :	98
May	. 26	165	77 :: 68	96.	132 :	136	162	151 162	197	110 :	83
Apr.	96	167	83	933	123	152	158 :	152 :	202	136:	83
Mar.	93	165	128	. 96.	111 :	122	163	761	205	143:	: 66
Heb.		165	32	99	105 ::	121	164	146 :	200	149 ::	113 :
Jan.	89	163	548		927	143	168 :	135	199	149:	117 :
Year	Av. 1909- :	Av.1914- :	1909	1911	1913	1915	1917	1918	1920	1921:	1922

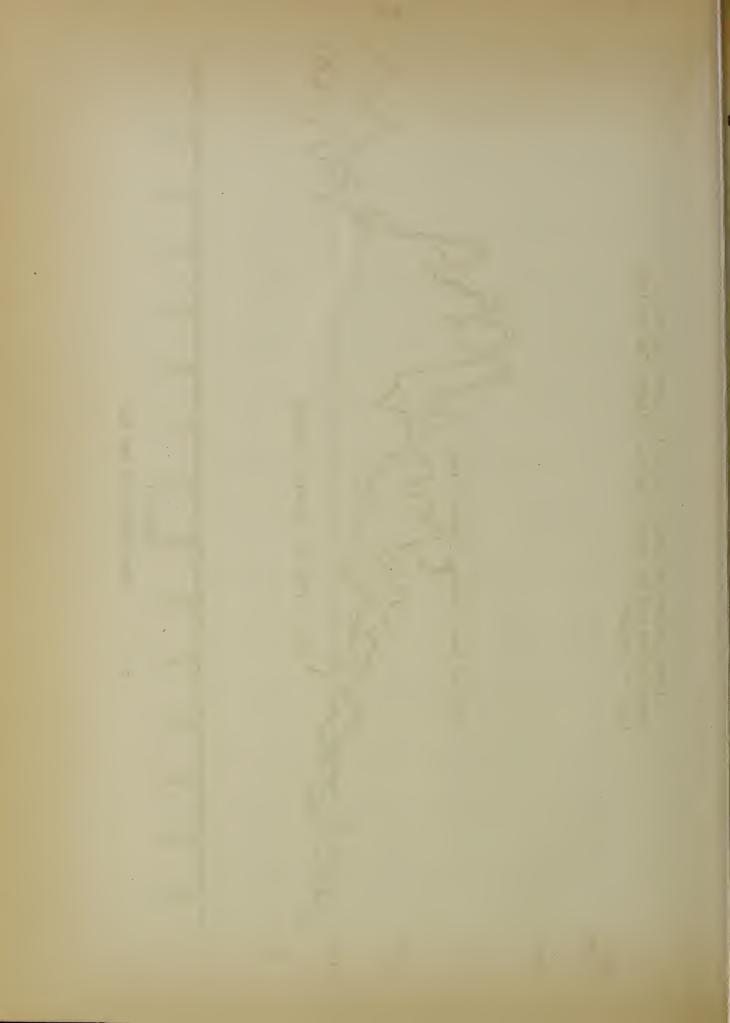
1/ Based on Table VI.



Prices of Chilled Beef Steers, Live Weight at







By reference to the index tables (Nos. VIII and IX) it will be noted that cattle prices in Argentina remained fairly constant from the middle of 1909 up to March, 1913, when the trend became definitely upward. There seemed to be no further strengthening of the market immediately after the outbreak of the war, but in the latter part of 1915 prices increased sharply and remained high through 1916. With the intensification of the German submarine campaign there came a decided drop in Argentine cattle prices and prices were relatively low throughout 1917 and until August, 1918, when they rose rapidly and remained at a very high point until November, 1921.

In November and December, 1917, and throughout 1918, Argentine exchange in New York was above par, while in the latter part of 1920 there was a sharp fall in the value of the peso coincident with the beginning of the period of price deflation in Europe and the United States. It is necessary, therefore, to turn to Table IX to get the full force of the rapid drop in cattle prices which spread consternation among the estancieros and precipitated an economic crisis in the whole country. For eight years prices had been from fifty to one hundred and forty per cent above the old level. During this time the whole country had become accustomed to a new price level, but the cattle price index number had been still higher than the index number of the cost of living, so Argentina had enjoyed unexampled prosperity. Table XIII gives a comparison between index numbers of the cost of living (rent, clothing and food) and the index number of cattle prices shifted to a 1910 base. It will be noted that the relative prices of cattle fell below the cost of living index number in 1921, and dropped much lower in 1922 and 1923. Since the index number of wages of city labor stood at 171 in 1922 as compared with 105 in 1918 and 100 in 1914, $^{\pm/}$ we may assume Bunge, El Costo de la Vida y el Poder de Compra de la Moneda, 1924.

Table X.

Average prices of native steers per 100 pounds, live weight, at Chicago, 1909 - 1923.

Average	Dol.	7.21	11.95	6.35							04.6 :							
Dec.	Dol.	7.15	11.29	6.25							9.30							
Nov.	Dol.	7.35	11.89	6.35							10.20							
Oct.	Dol.	7.35	12.40	6.50	-			-			9.70:	_	_	_		_		· .
Sept.	Dol.:	7.50	12.79	6.75:	7.10:	6.70	8.50:	8.45:	9.法:	8.75:	9.40 :	14.25:	16.75:	15.25:	15.65:	8.10:	10.30	10.25:
Aug.	Dol. :	7.50	12.69:	6.50:							9.50:							
July	Dol. :	7.33	12.56	6.45:	7.20:	6.25:	8.30.:	8.45:	8.90:	8.95:	9.30:	12.80:	16.85:	15.80:	15.35:	8.05:	9.60	10.25:
June	Dol. :	7.24	12.31	6.40:	_	_	_	-	_	_						-		
May	Dol. :	7.26	11.84	6.50:							9.50:							
Apr.	Dol. :	7.16	11.69 :								9 Sh :		15.00:		12,75:		7.95	9.20:
Mar.	Dol. :	7.19	11.42 :			6.20:					9.60		13.00:	17.10:	13.00:	9.40 :	8.05:	9.00
Feb.	Dol. :		11.19 :	5.90:		6.15:					8.65:				12.95:		7.55	9.05:
Jan.	Dol. :	6.75	11.32			5.15:					8.50:	10.40:	12.60:	16.55:	14.50:	9.15:	7.15	9.35:
Year	•	Av. 1909- :: 1913:	Av.1914- :	1909:	1910	1911:	1912	1913	1914	1915:	1916	1917	1918	1919	1920:	1921:	1922	1923:

Chicago Daily Drovers Journal.

Weights 1200 to 1350 pounds.

Table XI.

Index numbers of prices of native steers in Chicago, 1909-1923.

Base, average price 1909-1913, \$7.214 = 100.

0			
Average	100	156	888 896 1112 121 121 121 121 1214 135
Dec.	66	157	87 83 1112 1115 1116 1116 1116 1116 1116 1116
Nov.	102	165	88 100 119 118 172 222 208 171 171
Oct. :	102 :	172 :	115 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Sept.	: : 10t	177	94 95 95 95 95 95 95 95 95 95 95 95 95 95
Aug.	104	176	999 999 1123 1229 1329 1517 1517
July	102	174	100 100 1117 1123 1234 1234 1133 1142
June	100:	171:	103 114 120 120 120 120 127 121 121 125 125
May	101	164	100 100 1113 1113 1114 1115 1115 1115 1115
Aprl.	66	162	106 107 107 107 109 109 109 1109 1109 1109
Mar.	100	158	1055 107 116 116 125 125 125 125 125
Feb.	お	155	88 94 111 103 177 103 103 103 103
Jan.	₹ 5	157	88 89 100 110 1110 1110 1110 1110 1110 1
Year	Av.1909-	Av.1914- 1920	1909 1910 1911 1912 1915 1918 1920 1920

Weights 1200 - 1350 pounds.

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Table XII.

Excess in price per 100 pounds of native steers (1200 - 1350 lbs. weight)
Chicago over chilled beef steers Buenos Aires

Average	Doll.	3.22	5.16		3.16											•		
Dec.		3.15	99.4		2.53:		-											- 1
Nov.	Dol. :	2.94	. 96.4		1.83:													• 1
Oct. :	Dol.	: #8.5	: 06.4		2.18:													
Sept;	Dol. :	3.16:	5.38		2.82:													- 1
Aug.	Dol. :	3.31	5.62		2.92:													
July	Dol. :	3.31	5.88		3.49 :				•									• 1
June	Dol. :	3.34	5.94		3.76 :		-		_	-			-					
May	Dol. :	3.37	5.25	3.43 ::	3.96 :					-		_	_				_	- 1
Apr'l.	Dol.	3.34	5.04	3.05:		20.00			2.81							2.89		• 1
Mar.	Dol.:	3.47	4.81	3.08 :	· 50·0		4.00		2.88	2.29:	2.09 :	5.16:	7.12:	9.36 :	. 50: +	3.69:	4.08:	5.18:
Feb.	Dol.	3.25	h. 60		ん む:				•				6.97	•	•	•	-3.02 :	.5.80:
Jan.	Dol. :	3.21	14.80	•	3.06	•	•	•	•	•	•	•	•	•	•	•	•	•
Year :		Av.1909- :: 1913. ::	Av.1914- :: 1920:	1909	1910	1911	1916	1915	1914:	1915	1916	1917	1918:	1919	1920	1921:	1922:	1923

Agricultural land rentals in Argentine currency have practically doubled. Land which rented for the equivalent of from \$0.92 to \$1.63 per acre in 1913, now rents at from \$1.50 to \$3.06 per acre at par of exchange.

Table XIII.

Index numbers of cattle prices and cost of living for Argentina.

	: Cost	of living -	• 1	Cattle prices from
Year	: rent, for	od, and clothi	ng :	Table V
	:(a)Base 1910:(b)Base 1914:(c) Pase 1910:	Base 1910
	:	:	. :	
1910	: 100 :	:	100 :	100
1911	: 101 :		101 :	104
1912	: 105		105 :	1.03
1913	: 1.08 :		108 . :,	131
1914	: 108 - :	100 :	108 :	149
1915	: 117 :	107 :	116 :	166
1916	: 125 :	115 :	124 :	179
1917	: 146 :	135 :	146 : :.	162
1918	: 174 :	169 :	183 :	172
1919	: 186 :	160 :	173 :	: 214
1920	: 202 :	186	201 :	211
1921	: 188 :	166 :	179	169
1922	1.	139 :	150 :	123
1923	:	136 :	147 :	118

The cost of living index shown in the first column (a) of Table

XIII was computed first through 1917 and published in the Review of the

River Plate, Feb. 28, 1919. It was continued through 1921 in a report of
the Argentine Department of Labor, April, 1922. The index number in the
second column (b) including a greater number of commodities, covering the
period 1914-1923, was published in a bulletin of the office of Director
General of Statistics, Feb. 8, 1924. In the third column (c), the first
four years of the first index number have been linked with the second index
number, and the combined series shifted to a 1910 base for comparison with
the cattle price relatives shown in the fourth column.

^{1/}Report of Consul General W. H. Robertson, 10/12/22. 2/ Bunge, op. cit.

By reference to Table X it will be seen that the course of cattle prices in Chicago during the war period was quite different from that in Buenos Aires. At least from the point of view of the export trade the cattle industry of the United States has been declining in relative importance since the early years of the century. In 1912 Chicago cattle prices increased decidedly, while Argentine prices remained unchanged. Since there was little export trade, the outbreak of the war did not seriously disturb the Chicago market but in 1916 when the high prices in Europe again began to attract North American beef, there was a very decided strengthening of prices and with the entrance of the United States into the war, prices rose rapidly just at the time Argentine prices were somewhat depressed. The period of high prices in the United States thus lasted only four years, 1917-1920 inclusive, instead of eight years (1913-1920) as in Argentina. When the period of deflation came late in 1920 the drop in prices was even more rapid in Chicago than in Buenos Aires but the low point was reached in December 1921, with a decided recovery in 1922.

The bearing of these price fluctuations on the possibility of exports of beef from Argentina to the United States is shown in the table of differences (Table XII). In this table it will be noted first that in every month of the fourteen years prices have been absolutely higher in Chicago than in Buenos Aires.

^{1/} While the price of dressed meat may vary independently of the price of cattle, the price of cattle is unquestionably the greatest single element in the cost of beef production, and as there are no quotations in Argentina for the type of dressed beef which is exported, the best basis for comparison seems to be the cattle price.

From 1909 to 1913 the difference in price ranged from \$1.90 per hundred to \$4.80. There were no exports to the United States, as the difference was not great enough to overcome the tariff of 1-1/2 cents a pound and the freight rate, which though not quoted would probably have been about one to one and a half cents a pound. 1 When the tariff was removed in 1913, exportation to the United States began immediately. In 1914, 65,000 tons of frozen Argentine beef were marketed in the United States and 44,000 tons in 1915. 2/ By 1916, however, not only had the demands of the European war made Europe a better market than the United States, but the difference in cost in the early part of the year was little more than the freight rate. The United States market was then neglected by the Argentine trade until the close of the war in spite of the increased price differential. At the close of the war there were a few beef shipments from Argentina to New York, but these were soon stopped by the emergency tariff of two cents a pound. In 1922 the tariff was increased to three cents a pound but in October and November, the differential was so great that as we have seen some beef was again exported to the United States. 3/ In 1923, with a price differential averaging more than \$6. per 100 lbs., exports to the United States were negligible. This fact may give some indication of the price differential necessary in order to overcome the handicap of the tariff and high freight rates.

^{1/} Critchell and Raymond in "A History of the Frozen Meat Trade," 1913,
 Page 144, give the rate on chilled beef to British ports as 11/16d.
 per pound. W. Weddel & Co. in their "Review of the Frozen Meat Trade
 for 1923," give the current rates on Dec. 31, 1923 as 3/4d. per 1b. for
 frozen beef and 3/4d. + 10% per 1b. on chilled beef.
2/ See Table XXV. Appendix. 3/ See page 7.

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Table XIV.

Prices per pound of Argentine chilled beef hindquarters in London.

ම නිස	÷2 Ω	669	32	61	かに	, 20.	† †	<u>†</u>	96	83	15	65	35	37	83	25	96	
Aver	: Cen			•													-1	
Dec.	Cents	9.71	20.145	•		•			•	•			•	•	•	•	11.96	
Nov.	Cents:	9.12	20.06				•					_		•	•	•	11.78:	
Oct	cents:	9.46	20.47														12.37:	
••	•• ••	9.98	. 22	# # # # # # # # # # # # # # # # # # #	 35°C	13:	29	30 :	15:	83 :	: 11	66	: 89	: 99	32:	: 11	72:	
Aug.	••	9.87		525	, o	.53	. 70	.52:	77.	. 22 :	.0.7	.50	7.7	10:	.21 :		. 26 :	
uly		99.6		£.	 98 ≈ ≈	. 96.	· +-	53	31 :	82	.50	: 31	: 24	. 56	: 94	. 16	23:	
•	••			525	22	: 76.	.01 :	.32 :	.: 03	.82 :	62	· 48 :	. 56 :	: 47.	. 87	. 81	••	
Ju	••	· · ·		••	•• ••	••	••	••	••	••	••	••	••	••	••	••	: 13	
May	: Cents	10.30	.20.85	•		•	•		•	•	•	•	•	•	•	•	- 1	
Apr.	Cents	9.71	50.09	8.51	000			•	•	•	22.30	64.75	27.37	•	•	ま. さ.	12.24	
Mar	Cents:	9.62	19.65	8.87	0.4.0 7.43.0			10.70:					28.09:	18.07:	19.89	11.49:	11.27 :	
Feb.	Cents:	9.62	19.52							•		•			•	11.02:	12.46:	
		9.43			900	-		: 92.	: .70.	.32	.31:	: 77 :	: 44:	: † 5:	•	•	14.55:	
Year	••	1913	.1914-		1910	•	1913	•:	••	••	•	••	••	-:	••	•	1923.: 1	
	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov.	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Cents - 9.43 9.62 9.62 9.71 10.30 9.91 9.66 9.87 9.98 9.46 9.12 9.71	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Ave. Cents C	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Ave. Cents C	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Ave Cents Ce	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct., Nov. Dec. Ave Cents C	Jan. Feb. Mer. Apr. May June July Aug. Sept. Oct., Nov. Dec. Ave Cents C	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec. Ave Cents Ce	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Fov. Dec. Ave. Cents C	Jan. Feb. Mer. Apr. May June July Aug. Sept. Oct., Nov. Dec. Ave Cents C	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct., Nov. Dec. Ave Cents C	Jan. Feb. Mer. Apr. May June July Aug. Sopt. Oct., Nov. Dec. Ave Cents C	Jan. Feb. Mar. Apr. May June July Aug. Sopt. Oct. Fov. Dec. Ave. Cents Gents Cents Cents	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Roy. Dac. Ave. Cents Cents	Jan. Feb. Mar. Apr. May June July Aug. Sopt. Oct, Nov. Dec. Ave Cents Ce	Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Fov. Dac. Ave. Cents Cents	Jan. Feb. Mer. Apr. May June July Aug. Sept. Oct. For. Dec. Ave. Gents Cents Cents

^{1/} No quotations. Price of 31.46 interpolated in computation of averages.

Compiled from British Ministry of Agriculture and Fisheries, Return of Market Prices

^[] Price Control, Jan. 1917 - March 1921. During price control the quotation is usually for frozen beef. When separate quotations were made for chilled beef the price was the same as for frozen beef.

Table XV.

Prices per pound of Argentine chilled beef forequarters in London.

Dec.	Cents				19:20		
Mov.	Cents		12.68		17.86	9.01	7.67
.0ct.	Cents:	7.14:	12.43:	19.8	16.75	8.07:	7.07
Sept.	Çents:			_	13.28 ::		
Aug.	Cents				13.57		5.99:
July	Çentş :				14.63		
June	Cents:				17.06:		
May	Cents:	6.72 :	17.98	. 60. L	18.13 ::	8.00	6.38
Apr	Cents:	7.75	13.30:15.48:		21.08) (i. i. i	6.18
Mar	Cents:	8.04:			21.73		8.33
Feb.	Çents:	8.54:	12.88	20.8%	25.03	12.90 :	9.53
Jan.	Cents:	7.48 : 8.61 ::	12.10:	17.84	25.03	12.52 :	9.82
Year	•	1913:	1915	1917	1919	1921:	1922

1/ No quotations

[] Price Control, Jan. 1917 - Mar. 1921. See also note to Table XIII.

British Ministry of Agriculture and Fisheries, Return of Market Prices.

Table XVI.

Index numbers of prices of chilled beef hindquarters, London.

(Converted to cents per pound)

Base, 1909-1913 average 9.699 = 100.

e e	1																	
Average	Cents	100	210	66	98	96	105	108	128	165	194	642	285	256	189	174	137	134
•••	S			• ••		~	**	٠.		**	~	••					••	~
Dec.	Cents	100	211	8	8	107	108	114	147	158	27.	235	32/2	219	180	159	146	127
•	23				••	••	••	••	••	••	••	••	••		••	••	••	••
Nov	Cents	ま	207	98	83	86	93	112	139	155	180	235	1/	237	179	147	130	121
•• ••	Ω.					••	••	••	••		••		••	•••	•••		••	
Oct.	Cent	98	211	. 83	96	₹	102	115	142	167	192	240	324	233	179	133	132	128
	··· ·	••••	i	•••	å.	••	••	••	••	••	••	••	••	••	••	••	••	••
Sept	Cents	103	205	102	100	98	104	109	156	156	194	245	289	213	181	158	152	14
•• ••	·•• ·	• • •	• •• •• •	••	••	••	••	••	••	••	••	••	••	••	••	••	**	
Aug.	Cents	102	218	108	108	73	109	110	150	187	208	289	782	218	187	177	143	126
•• ••	70	• •• •		- • • -	••	••	••	••	••	••	••	••	••	••	••	••	••	••
July	Cents	100	213	106	91	27	102	118	129	178	194	273	283	232	199	170	134	167
•• ••	70	• •• •	• • • •	•••	••	••	••	••	••	••	••	••	••	••	••	••	••	
June	Cents	102	219	108	112	85	103	103	117	1.84	215	281	283	250	204	164	142	143
•• ••	·· .	• •• •	• • • • • • • • • • • • • • • • • • • •	••'	••	••	••	•• ·	••	••	••	••	••	••	••	••	**	••
May	Cents	106	215	108	115	56.	118	46	123	174	225	248	283	252	198	177	143	133
•• ••		• •• ••	•• •• ••	••	••	••	••.	•• ·	••.	••	••	••	••	••	••	••	••	••
Apri	Cents	100	207	88	101	95	107	111	104	158	196	230	283	282	197	198	154	126
•• ••		• •• ••	· •• •• ••	••	••	••.	••	••	••	••	••	••	••	••	••	••	••	••
Mar.	Cents	66	203	91	96	97	104	107	110	142	172	245	272	290	186	205	118	116
•• ••	to .	• •• ••	•• •• ••	••	••	••	••	••	••	••	••	••	••		••	••	••	••
Feb.	Cents	66	201	98	97	87	107	107	111	159	1.63	246	235	354	170	200	114	128
•• ••	ω	• •• ••	•• •• ••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	
Jan.	Cents	97	205	103	93	93	106	. 92	111	155	178	220	235	324	213	194	130	150
•• ••	••	• • • • •			••	••	:		:	••	:	••	••	••	••	••	:	•
Year		913	914	:	:	:	:	:	•	•	:	:	:	:	:	:	:	
Ye	-	AV . 1909= 1913.	Av. 1914- 1920:	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923

No rates of ocean freight are quoted on chilled and frozen beef from Buenos Aires to New York, but the rate on canned beef in December, 1922, averaged \$2.90 per hundred pounds as compared with an average for the year of \$2.57. This is at least double the pre-war rate although it represents a decided drop from the years of the war. As recently as 1920 the berth rate on canned meat from Argentine ports to New York averaged \$6.66 per hundred pounds.

The British Market for Argentine Beef.

tables XIV and XV show the course of prices of Argentine chilled beef in the Smithfield Market in London, 1/2 and in Table XVI the prices of hindquarters are reduced to an index number based on the average prices for the five-year period 1909-1913. In comparing this index number with the index number of cattle prices in Buenos Aires (Table VIII) a number of very significant differences appear. In the first place it may be observed that while the Buenos Aires cattle market is largely dependent on the British market for beef, the British market is influenced by a great variety of factors. For, while in 1921, 83 per cent of the total exports of chilled and frozen beef from Argentina went to the United Kingdom, only 27 per cent of the British beef supply came from the Argentine.

Beginning with the year 1909, London beef prices were fairly constant for two years. In 1911 the market was relatively weak, but decidedly

l/ Converted to cents per pound on the basis of the par of sterling exchange 4.8665, to 1912. From Jan. 1912 to June, 1921, on the basis of the average monthly rate of sterling exchange quoted in the International Yearbook of Agricultural Statistics, pages 504 and 498. From July, 1921, to date on the basis of the average monthly rate of sterling exchange quoted in the Bulletin of the U. S. Federal Reserve Board. In some months the true relation of prices as between Buenos Aires and London is obscured by fluctuations in the New York exchange value of the pound sterling, which did not affect the relative values of the peso and the pound or of the dollar and the peso. While these differences may affect price relations in certain months, they do not materially influence price trends.

stronger in 1912 and 1913 as imports from the United States declined. 1914 prices increased sharply as early as May with a further increase with the outbreak of the war. Throughout the whole period of the war prices continued to rise in spite of the price control which went into effect in January, 1917. The highest price, two and a quarter times the pre-war average, was that fixed by the food control in October, 1918, one month before the Armistice. This price stood until March, 1919. From this date the fixed prices were successively lower with two minor exceptions until March 29, 1921, when control ceased. Immediately after decontrol prices rose slightly and then began to decline until in February, 1922, the index stood at 114 or lower than in any month since April, 1914. Later in the year, however, prices were again higher, and the average index number for the year 1922 was even higher than the average for 1914. From the point of view of the British consumer, the situation was still worse for, in British currency, the average price of Argentine chilled beef hindquarters was 67 shillings in 1922, as compared with a pre-war average of 44/9 and a 1914 average of 51 shillings.

Tables XVII and XVIII show the prices and the index number of prices of good Western dressed carcass beef in the New York market. A comparison of these prices with the prices of Argentine chilled hindquarters in London in Tables XIV and XVI shows a relatively close correlation. Only during the war years from the beginning of 1915 to the middle of 1919, do the prices show any marked divergence aside from normal market fluctuation. During these war years the prices of Argentine chilled hindquarters and even in 1916, 1917 and 1918, the prices of Argentine chilled forequarters were consistently higher than good Western dressed beef in New York. In

other years the New York prices have averaged higher. However, if we can assume that Argentine chilled beef would bring no higher price in New York than the grade of American beef under consideration, there would not appear to be any advantage in the New York market over the London market, when the three cent tariff is taken into consideration.

.. Profits of the Packing Companies

It is evident, therefore, that the British consumer is not receiving the full benefit of the low prices of cattle in Argentina.

In Table XVII, the yearly index numbers of Argentine cattle and the index number of Argentine beef in London are shown side by side together with an index number of the valuations of Argentine export beef in Buenos Aires as reported to the Argentine Government.

Table XVII.

Index Numbers of Cattle and Beef Prices.

Base - Av. 1909-1913

	;	Prices of Chilled	: Pri	ces of Argentine	: Valuat	ion of frozen
Year	:	Beef Steers,	: chi	lled beef hind-	: and ch	illed beef ex-
	:	Buenos Aires	: qua	rters, London.	: ports,	Buenos Aires.
1909	:	87		99	•	100
1910	:	95		98 " " "	• • • • • • • • • • • • • • • • • • • •	100
1911	:	98	:	90		100
1912	:	97	:	105	:	100
1913	_:	124	:	1.08	:	100
1914	:	143.	:	128	•	101
1915	:	156	:	165	:	210
1916	:	171	: :	194	:	227
1917	:	158		249	:	226
1918	:	171	•	. 285	:	302
1919	:	206	:	256	: • .	373
1920	:	186	:	189	:	244
1921	1:	122	:	174	:	191
1922	:	98 . :	: .	137	:	116
1923	:	90	:	134	:	

^{1/} Anuario de la Direccion General de Estadistica, 1909-1917. El Comercio Exterior Argentine, Bulletin 180, 184, and 187 (for 1918, 1919 and 1920). Obtained by dividing quantity of exports into valuation and reducing to an index.

Table XVIII.

Wholesale price per pound of good western dressed carcass beef in New York, 1909 - 1923.

Average	Cents	10.856	17.74		9.71							-	-				16.15
Dec.	Cents:	10.89	17.28		10.15											15.63:	
Nov.	Cents	11.20	18.71		10.75												15.85:
Oct.	Cents	11.48	19.03		10.56	4		_		_	_					16.75	17.09:
Sept.	Cents	11.48	19.37		10.20												18.64:
Aug.	Cents:	11.26	19.01		9.88										-		17.98:
July	Cents:	11.05	18.49	9.58 :		12.50:	•	•		•		•	20.96:		15.25:	•	17.61:
June	Cents:	11.04:	17.95		9.25	•	•		12.00:	-	_		_		_	-	16.60:
May	Cents:	10.78	17.31	9.78		11.62:			11.90:								15.69 :
Apr.	Cents:	10.76	17.26		9.35	10.56:			11.38:	_	_		24.43:	21.94:	•	13.60:	14.46:
Mar.	Cents:	10.33	16.22		9.12 :	10.00:	-		11.38:	12.25:	14.84:	17.89:		19.64:		13.62:	13.96:
Feb.	Cents:	9.91	15.83	9.56	9.53	10.00:	11.50:	12.69:	11.12:	11.10:	14.62:	•	25.16:	18,58:	14.45 :	13.12:	14,32:
Jan.	Cents:	10.09	16.44	•	 か.な	•	•	12.62:	12.50:		13.65:	17.90:	25.13:	21.28:	17.36:	14.06:	15.14:
Year	. 0001	AV. 1909- :	Av.1914- : 1920:	1909	1911	1912	1913:	1914	1915	1916	1917:	1918:	1919	1920	1921	1922:	1923:

From 1909 through Feb. 1917. - National Provisioner, New York Market Price Western Dressed Meats, Native Steers, Common to Fair. From March 1917 to date. Live Stock, Meats and Wool Division, Bureau of Agricultural Economics, U.S. Dept. of Agriculture.

1 923 T 3SS IBSI **T**850 Buenos Aires 6161 8161 Steers, (See Tables XVI and IX. 1161 Chilled Beef CHART III 9161 9161 Chilled Argentine Hindquarters, London **₽161** 2161 **T61**S 1161 1910 606T NUMBERS 0 100 50 INDEX 250 200 150 300

Index Numbers of Prices of Argentine Chilled Hindquarters in London and of Chilled Beef Steers in Buenos Aires.



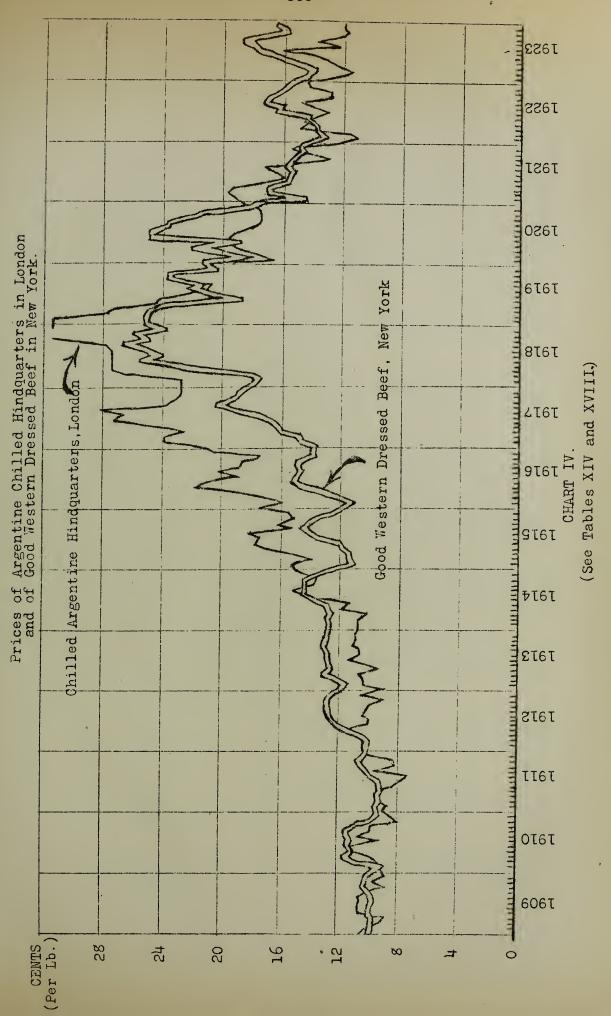




Table XIX.

Index numbers of wholesale price of good western dressed carcass beef New York, 1909 - 1923.

Base average price 1909-1913, 10.856 cents per pound = 100.

Average	100	163	99 107 117 117 117 117 117 117 117 117 117
Dec.	00	159	1113
Nov.	103	172	200 1117 1217 1224 1230 1468 1468
Oct.	106	175	100 111 129 1136 1139 1139 1139 1139
Sept.	106	178	106 106 107 108 108 108 108 108 108 108 108 108 108
Ang.	104	175	100 100 100 100 100 100 100 100 100 100
July	102	170	88 102 115 117 127 150 150 150
June	102	165	100 100 100 100 100 100 100 100 100 100
May	66	159	100 100 100 1110 1110 1120 1120 1120 11
Apr.	66	159	87 106 119 147 197 185 185 185 185 185
Mar.	95	149	88 100 112 117 113 125 125 125 125
Feb.	. 16	146	888 883 100 100 100 100 100 100 100 100 100 10
Jan.	93	151	8888 11119 1120 1120 1230 1230
Year	Av.1909-	Av.1914-	1909 1910 1911 1913 1914 1915 1918 1920 1920

It would thus appear that while the Argentine rancher was receiving about double the pre-war price for his cattle, export beef was valued at from three to four times the pre-war average price. Unfortunately we are unable to analyze packing and marketing costs, but these were undoubtedly higher during the war, than before. Even as regards ocean freights we have no information, but in that respect the freight payment is frequently only a book transaction as many of the refrigerator steamers are owned by the packing companies, or operated under long term contracts. 1/

Frigorifico "La Blanca" (Morris and Armour) says - "The profits of the frigorifico business were large during the period of the war, as were also the profits of any other branch of industry which supplied the needs of the belligerent nations."

l/ Critchell and Raymond, op. ct., P. 144. "These contracts frequently become a great burden to the frigorificos, especially when they are losing money. But it is often more economical for a company to fill its space, and lose money on the beef it ships, than to pay for the empty space." Letter from George E. Putnam, Swift & Company, Feb. 29, 1924.

^{2/} Report of Francis White, Charge d'Affaires of the United States in Buenos Aires, dated Feb. 2, 1922.

Swift and Company reports - "The balance of 9,502,970.43 gold, which appears on our profit and loss account for Dec. 21, 1920, represents undivided profits made by the companies for the years 1911-1920, inclusive, and especially during the years 1916 to 1918, the years of the war, when the gains of all industries and companies, especially those which handled food products......were higher than normal."

The Sansinena Company says: "It is just to recognize that during the war.....[the packers] have had good years, but what merchant or industrial did not make good profits during that period?.......These favorable business conditions terminated with the war. [Prices] then commenced to fall.....bringing the usual trouble to all who could not liquidate their stocks of merchandise with some speed. A proof is that the Smithfield and Argentine Meat Company closed their last balance with a loss of £ 125,000 and it would not be strange if more than one company closed its 1921 balance with considerable loss."

In a letter of February 29, 1924, Mr. George E. Putnam, of Swift & Company, comments as follows: "While in the Argentine I looked into the record of earnings of various frigorificos, as far back as I could get balance sheet and income statements. I found that during the eleven years ending December, 1922, they had made an average profit of 7.88 per cent on the total capital employed in the industry, or 13.30 per cent on their combined stock and surplus. These profits included all the earnings of the five war years when profits were unusually large in all South American industries. According to North American standards, such earnings seem pretty large, but as things go in the Argentine, they are not large enough, considering the hazards in the trade as a whole."

The Argentine Packing Industry.

The business of meat packing in Argentina was spared the hardships incident to the experimental stages of a new undertaking. The market for frozen and chilled beef was already developed chiefly in the United Kingdom, finely bred cattle were available and in the construction of packing houses it was only necessary to copy the established lines of the American plants.

The packing houses, known in Argentina as frigorificos, are chiefly controlled by American and British capital. Only one of the eight principal companies, the Compania Sansinena, is considered an Argentine firm. The American firms are Swift, Armour, Morris and Wilson. Swift and Company not only operate under their own name in Argentina, but control the Frigorifico Montevideo in Uruguay. Morris and Company control La Blanca Frigorifico jointly with Armour and Company and also control the Artigas plant in Uruguay. The British Companies are the Anglo-South American Meat Company, the British and Argentine Meat Company, and the Smithfield and Argentine Meat Company. The first two companies are controlled by the Vestey Brothers, who also control a large part of the meat trade of Australia and New Zealand. The British and Argentine Meat Company during the war leased its largest plant, Las Palmas, to the British Government.

It is charged by the Argentine producers that competition among these eight firms is practically eliminated by means of a regular conference at which weekly shipments of the various companies are agreed upon in advance. The companies, however, deny that any price agreements have been made, asserting that this conference, which is held in London, is necessary in order to prevent a fatal alternation of glut and shortage in the British

market. In his official report of September 23, 1922, as an Argentine Government Agricultural Commissioner, Sr. Nicholas A. Calvo gives the current percentage agreement of exports of chilled beef as follows:

Table XX.

10 0000

Packer's conference agreement for division of chilled beef shipments

Packing House	Per cent of total shipment
United States Control:	
Swift, La Plata Armour La Blanca, (Morris and Armour) Wilson Artigas (Morris) Frigorifico Montevideo (Swift)	17.44 11.35 8.65 5.41 5.26
Total, United States	
British Control:	
Las Palmas (Vestey) Anglo-South American (Vestey) British and Argentine (Vestey) Smithfield and Argentine	12.29
Total, British	36.25
Argentine Control:	
Sansinena	3.89
Total, Argentine	10.88
TOTAL	: 100.00

Compiled from Argentine Meat in Europe; Report of the Official Commission, Review of the River Plate, Oct. 6, 1922, page 835.

It will be noted from Table XX that more than half of the chilled beef exports from the River Plate are in the hands of the American interests.

These figures tend to be confirmed by the actual exports by companies for

the first nine months of 1922, as reported in the "Review of the River Plate," October 6, 1922, showing that in these months 53.9 per cent of all beef exported was shipped from American-owned packing houses. It is pointed out further in answer to Argentine critics that each company is anxious to fill its allotment of refrigerated space for which it has contracted in advance and that there is often very spirited bidding for desirable troops of cattle between the buyers of the different companies.

Export Duties.

Since Jan. 19, 1918, the Argentine government has collected an export duty on cattle products amounting to 15 per cent of the difference between the appraised value and the basic value fixed in the law. For frozen and chilled beef the basic value is 223.30 gold pesos per 1000 kilos, or at 1922 average exchange, \$8.29 per 100 lbs. The basic valuations are fixed from month to month by a committee representing the Argentine government and various interested organizations. Until January, 1922, the valuation of chilled and frozen beef was above the basic figure, and a tax was paid, but since that date the valuation has remained constant at 210 gold pesos per 1000 kilos, or \$7.79 per 100 lbs. and no tax has been levied.

Cost of Production of Beef Cattle in Argentina.

In the foregoing discussion of cattle prices it has been evident that the profits of the cattle raiser must be lower even than in pre-war years. The possibility still remains, however, that the pre-war profits may have been excessive and that the lower prices and higher cost of the present may still leave a reasonable margin of profit for the rancher.

The cost of production of beef cattle is probably much lower in Argentina than in the United States, but we have very little information

as to the actual cost. The only estimate which is available is one recently made by the Rural Society of Argentina for the National Live Stock Bureau. The figures are given for a ranch of 6,178 acres (2,500 hectares) with a land value of \$50.75 per acre (350 pesos per hectare). The following table is based upon the figures in the original estimate:

Table XXI.

Estimated Cost of Cattle Production in Argentina (Conversions made at .35998 the Average Exchange Rate in 1922.)

Ranch Cost.

Ensilage Wages, foreman and four laborers Maintenance of men (groceries) Taxes Miscellaneous Depreciation of breeding herd (replacing 10 bulls)	\$ 1,263 1,297 778 1,189 127
Total Ranch Cost	6,095

Charges against Income.

Rental of Land, or interest on investment in land at 8 per cent \$25,083
Interest on investment in animals at 8 per cent
Interest on investment in horses and equipment
Total Charges against Income 29,826
Weight of animals sold - 325 head at 1200 pounds 390,000 pounds. 325 head at 1300 pounds 422,500 pounds.
Total Weight of Animals sold 812,500 pounds.
Ranch Cost per hundred pounds cattle sold \$ 0.75

The obvious criticism of this computation is that the land value

Total Cost per hundred pounds

cattle sold

3.67

pounds cattle sold

Charges against Income per hundred

^{1/} Consular Report, Rosario, Argentina, December 19, 1922.

is higher than would be justified by the value of the product under normal conditions. Since, as we have seen, the average prices of cattle in 1922 were only slightly lower than the average for 1909-1913 and actually higher than the average for 1909-1912, the prospect of earning eight per cent interest on a valuation of \$51 per acre under peace time conditions would appear to be hopeless. If, as Consul Bonney suggests, the land value were taken at \$25.50 per acre, with the value of cattle and equipment and expense items remaining the same, the interest on the land in Table XXI would be reduced to \$12,603 and the total charges against profits to \$17,346. The total cost per hundred pounds of cattle sold would then be only \$2.88 instead of \$4.42.

It is apparent that the costs in Table XX are based on the assumed use of alfalfa pasture land during the whole process of producing a beef steer. But as a matter of fact, we are told that it is quite usual to breed cattle on the cheaper ranges in the more arid regions, and to use the alfalfa pastures only for finishing. In the United States such semi-arid pasture land in the western part of the Great Plains is valued at less than \$5. per acre, with about 20 acres required for each animal over one year old. This means a land value of less than \$100 for each animal. In the illustration in Table XXI, 2,340 cattle are pastured on 6,178 acres valued at \$51 per acre or \$135 for each animal. Since so large a proportion of the land area of Argentina is semi-arid it would seem that where the practice of breeding on the range and finishing on alfalfa is followed, the cost of production would be materially lower than in the estimate quoted above.

In order to make a rough comparison between the cost of production in Argentina and that in the United States we may consider the actual costs in 1922 on a Colorado cattle ranch of 6000 acres. $\frac{1}{2}$

^{1/} Data furnished by Mr. R. H. Wilcox, in Charge of Cost of Production Studies Division of Farm Organization and Cost of Production, Bureau of Agricultural Economics, United States Department of Agriculture.

Table XXII.

Cost of Production of Cattle on a Ranch in Colorado, 1922.

Ranch Cost.

Hay	\$4,522.00
Salt	
Labor	
Groceries	934.91
Taxes	
Veterinary	
Repairs and hardware	
Miscellaneous	
Death and accident loss, breeding herd	
Depreciation, breeding herd	
Depreciation, improvements	
Depreciation, equipment and horses	
Deprocration, equipment and norses	310.74
Total Ranch Cost	12 999 50
10 tal lancii 005 · · · · · · · · · · · · · · · · · ·	12,555.00
Charges Against Income.	• •
Charges Against Income.	
Rental of land, or interest in investment	
in land at 6 per cent	2 272 64
_	2,212.04
Interest on investment in breeding herd	. כסס מכ
at 7 per cent	622.75
Interest on investment in improvements	2 452 75
at 7 per cent	1,451.73
Interest on investment in horses and equip-	
ment at 7 per cent	298.41
Total Charges Against Income	4,645.53
Total weight of animals sold - 371 head - 364,710 pour	inds.
	2 0 -
Ranch cost per hundred pounds cattle sold	\$ 3.56
Charges against Income per hundred pounds cattle	
sold	1.27
the charge and the same that the same time to be a second to the	
Total cost per hundred pounds	
cattle sold	4.83

The relation between costs in Argentina and the United States may be better appreciated from the figures in the following table showing the financial statements of the two ranches in question.

Table XXIII.
Comparative Financial Statement, 1922.

Argentine Ranch	• :	Colorado Ranch
Capital Account	:	Capital Account.
1000 Cattle	28,832 : 7,030 : 14,060 : 7,208 : 432 : 647 : : 1,081 :	Land
Ranch Cost		Sales
Interest earned on Capital = per cent.	5.4	Interest earned on Capital = 0.

These figures must be used with caution as there is no assurance that either the Argentine Statement or the Colorado Statement are thoroughly typical. The Argentine statement in its original form, however, was so presented as to show a loss of over \$14,000, on the operation of the ranch in 1922. This was done by including the charges against profits with the ranch costs, and crediting sales at near the low price for the year, instead of at the average price as in the table above. It seems justifiable, therefore, to assume that the ranch cost in Argentina is exceedingly low, and that the chief loss of the cattle producers consists in their inability, under present price conditions, to earn the usual rate of interest on high land values.

Cattle Resources of Argentina.

There have been four censuses of live stock in Argentina, in 1895, 1908, 1914, and in 1923. The results of these censuses are as follows:

 1895
 21,701,526

 1908
 29,116,625

 1914
 25,866,763

 1923
 37,065,000

Previous to the census of 1923 there was a very wide difference of opinion as to the number of cattle in Argentina. Even the estimates made by the Federal Government differed widely from those made by the provincial governments. For example, the Federal Government in 1919 estimated the number of cattle in the Province of Buenos Aires as 9,755,372, while the provincial census of 1920 showed 14,331,138. In Entre Rios the discrepancies were almost as great. The Buenos Aires Herald for June 3, 1922, in commenting on the results of the provincial census contended that it was hardly possible that the number of cattle should have increased so greatly with exportation at its height during the war. It preferred, therefore, to take the national government estimates, but felt strongly the necessity of a new national census such as has since been taken.

ended by the publication of the census figures, which are considered by many writers to be far too large, but since they check so well with the earlier censuses in the provinces of Buenos Aires and Entre Rios, they have been generally accepted. It may be noted in this connection that the national census of 1914 was similarly discredited at first, but after a few years even the critics of the census began to base their current estimates upon it. During the war, breeding was carried on as rapidly as possible

and cattle were driven in from Faraguay to make up for a part of the losses by slaughter, so there is no argument against the accuracy of the census on the ground of physical impossibility.

The quality of Argentine cattle has improved rapidly with the development of the trade in frozen and chilled beef. In the early days of the industry when the only beef exported was jerked beef, the cattle were almost exclusively of the small native "criollo" breed. These cattle have now been crossed with the finer imported strains and there are also large herds of pure-bred Shorthorns, Aberdeen-Angus, and Herefords in the Argentine alfalfa pastures.

APPENDIX I

- Table XXIV Exports of Frozen and Chilled Beef from Argentina, 1899-1923.
- Table XXV Exports of Frozen and Chilled Beef from Argentina, 1909-1923. Quantity and Value by countries of destination.
- Table XXVI Exports of Jerked Beef, Canned Beef and Hides, 1899-1922.

Table XXIV.

Exports of frozen and chilled beef from Argentina, 1899 - 1923.

	*	•			Other	•	
Year :	United		United	•	Countries		Total
	Kingdom	•	States		and orders	•	••••
:	Short tons	• 5	hort tons	•	Short tons	:	Short tons
		. ~			21.01 0 0022		
1899:	10,008					:	10,008
1900:	27,106	:		:		:	27,106
1901:	47,946	:	,	:	1,552	:	49,498
1902:	59,967	:		:	17,214	:	77,181
1903:	66,816	:		:	23,044	:	89,860
1904:	89,849	:		:	17,894	:	107,743
1905:	140,778	:		:	27,720	:	168,498
1906:	150,469	:		:	19,074	:	169,543
1907:	144,858	:		:	7,504	:	152,362
1908:	195,683	:		:	3,630	:	199,313
1909:	230,959	:		:	1,248	:	232,207
1910:	277,952	:		:	1,710	:	279,662
1911:	331,787	:		:	13,050	:	344,837
1912:	361,918	:		:	16,006	:	377,924
1913:	391,385	:	3,581	:	8,729	:	403,695
1914:	339,785	:	65,390	:	1,539	:	406,714
1915:	329,724	:	44,162	:	25,960	:	399,846
1916:	395,062	:	9,744	:	66,647	:	471,453
1917:	312,612	: °	1,536	:	121,081	:	435,229
1918:	306,209	:	768	:	239,339	:	546,316
1919:	323,188	:	2,018	:	116,520	:	441,726
1920:	385,601	:	7,132	:	66,158	:	458,891
1921):	<u>1</u> / 357,898	: 1/,	2,830	:	1/ 68,902	:	<u>1</u> / 429,630
):	2/ 418,874	: 3/	526	:		:	
1922):	1/ 396,609	: 1/2	1,293	:	1/ 48,601	:	1/ 446,503
):		: 3/	5,551	:		:	
1923:	<u>4</u> / 478,119	: 4/	282	:	4/ 115,198	:	<u>4</u> / 593,599

- 1/ Total from official reports. Distribution estimated from unofficial data.
- 2/ Imports from Argentina into United Kingdom. Dec. 1922 Accounts Relating to Trade and Navigation of the United Kingdom.
- 3/ Imports into the United States. Foreign Commerce and Navigation of the U.S. 1921 and 1922. From the same source, Imports in Tons of 2000 lbs.; 1914, 29,793; 1915, 65,340; 1916, 26,340; 1917, 1,148; 1918, 1,311; 1919, 131.
- 4/ Jan. 1 Dec. 31, 1923, 6,755,419 quarters. Peview of the River Plate, Jan. 18, 1924, p. 129. The average weight of quarters exported in the years 1917-20 inclusive was 175.74 lbs. Therefore estimated weight exported Jan. 1 to Dec. 31, 1923, is 593,599 tons.
- Compiled except as otherwise noted, from Anuario de la Direccion General de Estadistica, 1899-1917. Comercio Exterior Argentino, 1918-1922.

Table XXV.

Exports of frozen and chilled beef from Argentina

				73	-	2 57 7	37				
	•			<u> </u>	<u> </u>	<u> </u>	11 14				
Year	:	United	:	United	:	(Other	:	Tctal	:	
	:	Kingdom	:	States	:	Con	intries	•	Exports	:	Value
	:	Short tons	:	Short tons	;	Shor	rt tons	:	Short tons	:	Dollars
1909	:	229,695	:		:		1,165	:	230,860	:	20,206,336
1910	:	268,649	:		:		1,709	:	270,358	:	23,663,343
1911	:	315,213	:		:		12,984	:	328,197	:	28,725,755
1912	:	334,106	:		:		16,006	:	350,112	:	30,695,071
1913	:	354,172	:	3,122	:		8,729	:	366,023	:	31,967,732
1914	:	302,430	:	57,392	:		1,539	:	361,861	:	31,996,575
1915	:	318,948	:	42,038	:		25,960	:	386,946	:	70,981,846
1916	:	377,257	:	9,744	:		66,647	:	453,648	:	90,101,274
1917	:	270,069	:	1,536	:		120,640	:	392,245	:	77,159,392
1918	:	304,506	:	768.	:		239,339	•	544,613	:	144,061,025
1919	:	520,454	:	2,018	:		116,520	:	438,992	:	143,590,031
1920	:	329,902	: -	7,132	:		65,992	:	403,026	:	86,224,373
1921	:	1/ 196,967	: 1	/ 2,687	:	1/	66,410	:	266,064	;	44,960,742
1922	:	$\overline{1}/$ 122,603	: ī	/ 1,308	:	1/	50,538	:	174,449	:	27,712,323
1923	:	$\overline{2}$ / 116,774	: 2	/ 282	:	2/	115,197	:	2/ 232,253	:	

	::		Chille	d	:	Frozen and	d chilled
Year	::United	: United:	Other :	Total :	:	:	
	: Kingdom	: States:	Countries:	Exports :	Value : ੍ਹ	uantity:	Value
	:Sh.tons	:Sh. tons:	Sh. tons :	Sh.tons :	Dollars : S	h. tons :	Dollars
1909	: 1,264	::	83 :	1,347:	117,897:	232,207:	20,324,233
1910	: 9,303	i: :	1:	9,304:	814,420:	279,662:	24,477,763
1911	: 16,574	: ;	66:	16,640:	1,450,466:2/	344,837:	30,182,221
1912	: 27,812	: ;	;	27,812:	2,438,369:	377,924:	33,133,440
1913	: 37,213	: 459 :	;	37,672:	3,290,122:	403,695:	35,257,854
1914	: 37,355	: 7,498 :	:	44,853:	3,965,926:	406,714:	35,962,501
1915	: 10,776	: 2,124 :	;	12,900:	2,366,397:	399.846:	73,348,243
1916	: 17,805	i: ;	:	17,805:	3,536,426:	471,453:	93,637,700
1917	: 42,543	; ;	441 :	42,984:	8,922,366:	435,229:	86,081,758
1918	: 1,703	i: ;	;	1,703:	375,998:	546,316:	144,437,023
1919	: 2,734	: :	;	2,734:	842,119:	441,726:	144,432,150
1920	: 55,699): :	166:	55,865:	11,952,106:	458,891:	98,176,479
1921	: 163,566	: ;	:	163,566:	27,040,396:	429,630:	72,001,138
1922	: 272,054	: ;	:	272,054:	17,706,111:	446,503:	45,418,434
1923	: <u>2</u> /351,346	: :	:	2/ 361,346:	:2/	593,599:	

^{1/} Distribution by countries. Estimated by applying to official total percentages derived from unofficial reports.

^{2/} Rreliminary estimate derived from exports in quarters, Review of the River Plate, Jan. 18, 1924.

Compiled from Amuario de la Direccion General de Estadistica, 1909-1917.

Comercio Exterior Argentino, 1918-1922.

Table XXVI.

Exports of jerked beef, canned beef, and ox hides from Argentina from 1899 through 1922

		•	
	: .	:	: Ox Hides
<u>Year</u>	: Jerked Beef	: Canned Beef	:Dry and Salted
	: Short tons	: Short tons	: Short tons
1899	: 21,124	: 2,002	: 57,853
1900	: 18,132	: 1,549	: 56,536
1901	: 26,781	: 1,043	: 60,412
1902	: 24,586	: 1,812	: 68,233
1903	: 14,320	: 4,125	: 57,332
1904	: 12,926	: 2,677	: 57,637
1905	: 27,875	2,743	: 71,848
1906	: 5,126	: 1,388	: 61,813
1907	: 11,738	: 1,758	: 59,936
1908	7,330	: 1,904	: 71,116
1909	: 12,811	7,044	: 98,193
1910	: 10,408	: 13,318	: 100,169
1911	: 13,360	: 16,990	: 116,415
1912	: 9,727	: 19,510	: 121,497
1913	: 4,310	: 13,860	: 95,871
1914	: 2,620	: 14,426	-: 86,05l
1915	: 235	: 35,212	: 1/ 99,016
1916	: 1,233	: 49,128	: 109,558
1917	: 2/ 8,392	: 111,094	: 105,255
1918	$: \overline{2}/$ 3,064	: 210,539	: 107,891
1919	$: \overline{2}/ 8,801$: 136,989	: 111,923
1920	: 2/ 2,788	: 15,484	: 70,011
1921	$: \overline{2}/2,927$: 17,549	: 91,757
1922	: <u>2</u> / 6,683	: 40,476	: 155,041

^{1/} Exports of tanned hides in 1915, units 129,079. Exports of tanned hides in other years relatively unimportant.

Source: Anuario de la Direccion General de Estadistica, 1899-1917. Comercio Exterior Argentine, 1912-1922.

^{2/} Salt meat, including pork and jerked beef.

APPENDIX II.

PACKER'S PRODUCTION AND MARKETING COSTS.

a translation of a communication addressed by the packing companies to the chairman of the committee on live stock matters of the National Chamber of Deputies, on the cost of production in the frigorificos. In this report the average price paid for export type steers in 1922 is given as 0.184 paper pesos per pound of anticipated dressed weight. On the assumption that these steers will dress 58 per cent of the live weight this is equivalent, at the average rate of exchange for 1922, to \$3.84 per hundred pounds live weight. The average given in Table VII is \$3.94 per hundred pounds live weight for chilled beef steers, which are usually of better quality than the average of all export steers.

In this communication a statement is made of the packers' costs for 1922, which is given here in terms of United States currency at the average exchange rate for 1922.

Table XXVII.

Packers' Cost of Production and Marketing-1922	•
Cost of the animal, 1207 lbs. at \$3.84 per 100 lbs	\$46.35
Cost of slaughtering and dressing	10.08
Expenses of Transportation and Sales	19.89
Net Cost of the meat	\$76.32
Sale in England allowing 1% shrinkage.	
693 pounds classified as:	
64% chilled-444 lbs. at \$.0937 per lb	41.60
36% frozen-249 lbs. at .0845 per lb	21.04
Total proceeds of meat sales	62.64
Sales of by-products	16.34
Total Sales	78.98
Net profit per steer in 1922	2.66

It may be noted, however, that an unweighted average price for 1922 of chilled Argentine hindquarters as shown in Table 14 was 13.24 cents per pound and for forequarters 8.45 cents per pound. These figures from the British Ministry of Agriculture "Return of Market Prices" would indicate a carcass beef price considerably above the 9.37 cents per pound in the illustration above.

In a second note to the same committee, the representative of the packers makes the following significant statements: "It can perhaps be maintained that Argentine chilled beef is the highest quality of meat imported into the British market, but it must also be admitted that the domestic meat of that country, from animals bred in stables and fattened on grain, is far superior to ours. The consumer of domestic meat is not and is not likely to become a consumer of ours, owing to this difference in quality; and this in spite of an appreciable difference in price, Argentine chilled beef often fetching in London only half the price of domestic beef.

"Argentine chilled beef replaces or is classed on a par with second quality meat of British origin, which is consumed by people in moderate circumstances and in modest restaurants, while frozen meat is what is generally sold in the country districts and in the big labor centers."

The writer then goes on to show that an increase in the price of Argentine beef in England would result in a material reduction in demand, and the substitution of other articles of food.